A-1

ATTACHMENT 1

Overview of Brother MFC-5490CN Printer

Plaintiff accuses the making, using, selling, offering for sale and importation of Brother color printer models MFC-795CW, MFC-990CW, DCP-165C, DCP-395CN, MFC-250C, MFC-255C, MFC-295C, MFC-3360C, MFC-495CW, MFC-5890CN, DCP-110C, DCP-120C, DCP-J125, DCP-130C, DCP-330C, DCP-350C, DCP-385C, DCP-585CW, MFC-210C, MFC-J220, MFC-230C, MFC-240C, MFC-J265W, MFC-J270W, MFC-290C, MFC-3220C, MFC-3240C, MFC-3320C, MFC-3340C, MFC-3420C, MFC-3820CN, MCF-J410W, MFC-J415w, MFC-420CN, MFC-4420C, MFC-465CN, MFC-4820C, MFC-490CW, MFC-5440CN, MFC-5460CN, MFC-5490CN, MFC-5860CN, MFC-5895CW, MFC-J615W, MFC-620CN, MFC-J630W MFC-640CW, MFC-685CW, MFC-790CW, MFC-795CW, MFC-820CW, MFC-885CW, MFC-990CW, MFC-J6510DW, MFC-6490CW, MFC-J6710DW, MFC-6890CDW, MFC-J6910w of constituting direct infringement of U.S. Patent Nos. 6,337,746 and 6,618,157 (hereinafter "the Patents-in-Suit"). As an exemplary and typical model, the MFC-5490CN printer is charted below. The term "Accused System and Method" means the foregoing printer models sold by Brother and all other models that are substantially similar.

Plaintiff further accuses Brother of indirectly infringing the Patents-in-Suit through providing, authorizing and instructing regarding the Accused System and Method to others, including Brother's customers. Installing the Accused System and Method and the operation thereof directly infringe the asserted claims. Brother intends to cause infringement by its customers and users. Brother instructs users to install the software and associated hardware of the Accused System and Method. As such, Brother instructs users to configure and operate the Accused System and Method in an infringing manner. Brother also provides installation, maintenance and support services for the Accused System and Method, including providing instruction, tools, manuals, guides, online materials, support and consulting services.

The asserted claims include elements that are implemented, at least in part, by software in the Accused System and Method. The precise processes and algorithms used in them are held secret, at least in part, and are not publicly available in their entirety. An analysis of Brother's documentation is necessary to fully and accurately describe all infringing features and functionality of the Accused System and Method and, accordingly, plaintiff reserves the right to supplement these contentions once such information is made available to plaintiff. Furthermore, plaintiff reserves the right to revise these contentions in view of the Court's final claim construction in this action.



U.S. Patent No. 6,337,746

1. Apparatus for printing a graphic image on a substrate, comprising:

The Accused System and Method is designed to print on a substrate. For example, the Accused System and Method is used for cut-sheet materials.

Print	back to top
Print Technology	Color Inkjet Technology
Maximum Printing Size	8.5" x 14" (Legal)
Consumable Type	4-Cartridge Ink System
Max. Black Print Speed (ppm)	35ppm Black‡
Max. Color Print Speed (ppm)	28ppm Color‡
Print Resolution (maximum dpi)	Up to 6000 x 1200 dpi‡
Borderless Printing	Yes‡
Standard Input Paper Capacity (sheets)‡	Up to 150-Sheet Input Capacity
Standard Interface(s)	Hi-Speed USB 2.0, Ethernet, PictBridge Interface and USB Flash Memory
Printer Driver Compatibility†	Windows® / Mac OS®
Mobile device printing app‡	Brother® iPrint&Scan free app download for wireless printing (JPEG images) from and scanning to your Apple® iPhone®, iPad™, and iPod touch® or Android™ smartphones
Emulation(s)	GDI
Secure Print Function	No
Maximum Monthly Duty Cycle‡	4,000 Printed Pages
Recommended Monthly Print Volume‡	250 - 2000 Printed Pages

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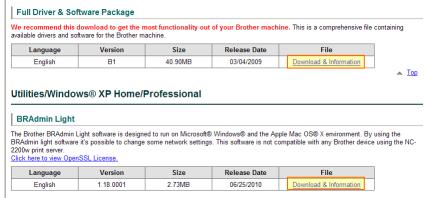
usa.com/MFC/modeldetail.aspx?PRODUCTID=MFC5490CN&tab=spec (3/24/11)

a computer containing at least one motherboard which carries a data bus and a random access memory, said computer being controlled by an operating system; The Accused System and Method is driven by a computer containing a motherboard with a data bus and memory. The computer is controlled by an operating system.

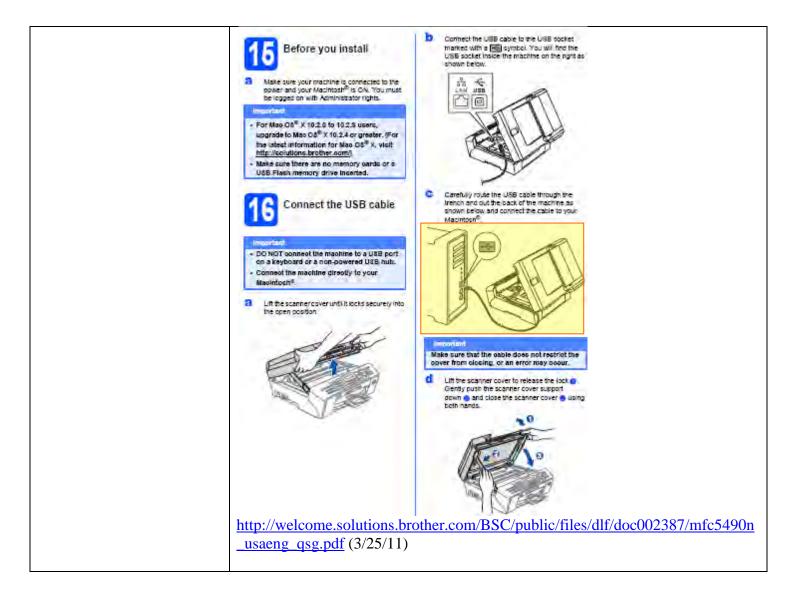
Computer requirements

	SUPPORTED OPERATING SYSTEMS AND SOFTWARE FUNCTIONS								
	er Platform	Supported PC Software	PC	Processor Minimum		Minimum	Recommended	Required HARD Disk Space For For Drivers Applications	
	ng System rsion	Functions	Interface	Speed		RAM	RAM		
Windows [®] Operating	2000 Professional ⁵	Printing, PC FAX ⁴	USB Ethernet	Intel [®] Pentium [®] II		64 MB	256 MB	110 MB	340 MB
System ¹	XP Home ^{2 5} XP Professional ^{2 5}	Scanning, Removable Disk		or equivalent		128 MB			
	XP Professional x64 Edition ²			64-bit (Intef [®] 64 or AMD64) supported CPU		256 MB	512 MB		
	Windows Vista ^{® 2}			Intel [®] Pentium [®] 4 or equivalent		512 MB	1 GB	600 MB	530 MB
				64-bit (Intel® 64 or AMD64) supported CPU					
Macintosh [®] Operating System ⁶	Mac OS® X 10.2.4 - 10.4.3	Printing, PC FAX Send ⁴	USB ³ Ethernet	PowerPC G4/G5 PowerPC		128 MB	256 MB	80 MB	400 MB
	Scanning, Removable Disk		G3 350MHz						
	Mac OS® X 10.4.4 or greater	Printing, PC FAX Send ⁴		PowerPC G4/G5, Intel [®] Core™		512 MB	1 GB		
	groutel	Scanning, Removable Disk		Processor					

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http://welcome.solutions.brother.com/bsc/public/us/us/en/dlf/download_index.ht ml?reg=us&c=us&lang=en&prod=mfc5490cn_all&dlid=&flang=English&os=7 &type2=-1 (3/24/11)





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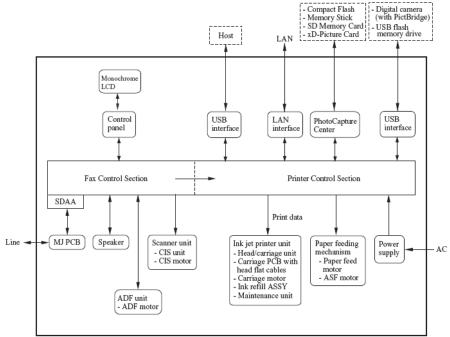
means for storing image data in said random access memory; The Accused System and Method stores image data in RAM.

Computer requirements

	SUPPORTED OPERATING SYSTEMS AND SOFTWARE FUNCTIONS							
	Computer Platform & Operating System		PC	Processor	Minimum	Recommended	Required HARD Disk Space	
	ng System rsion	PC Software Functions	Interface	Minimum Speed	RAM	RAM	For For Drivers Applications	
Windows [®] Operating	2000 Professional ⁵	Printing, PC FAX ⁴	USB Ethernet	Intel [®] Pentium [®] II	64 MB	256 MB	110 MB	340 MB
System ¹	XP Home ^{2 5} XP Professional ^{2 5}	Scanning, Removable Disk		or equivalent	128 MB			
	XP Professional x64 Edition ²			64-bit (Intel [®] 64 or AMD64) supported CPU	256 MB	512 MB		
	Windows Vista ^{® 2}			Intel® Pentium® 4 or equivalent 64-bit (Intel® 64 or AMD64) supported CPU	512 MB	1 GB	600 MB	530 MB
Macintosh [®] Operating System ⁶	Mac OS® X 10.2.4 - 10.4.3	Printing, PC FAX Send ⁴ Scanning, Removable Disk	USB ³ Ethernet	PowerPC G4/G5 PowerPC G3 350MHz	128 MB	256 MB	80 MB	400 MB
	Mac OS® X 10.4.4 or greater	Printing, PC FAX Send ⁴ Scanning, Removable Disk		PowerPC G4/G5, Intel [®] Core [™] Processor	512 MB	1 GB		

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at least one interface card connected to said data bus and having a serial port connected to the data bus, a printing device interface, and means for transferring stored image data from said random access memory to said printing device interface; The Accused System and Method incorporate an interface card connected to a data bus. The interface card includes serial ports (including Ethernet and/or USB).

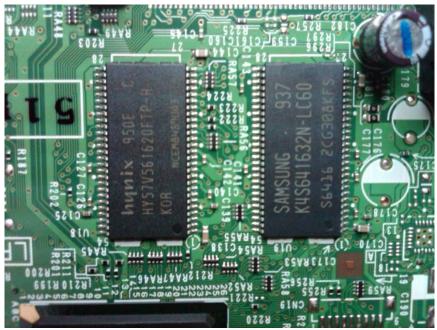


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USB Serial Port and Ethernet

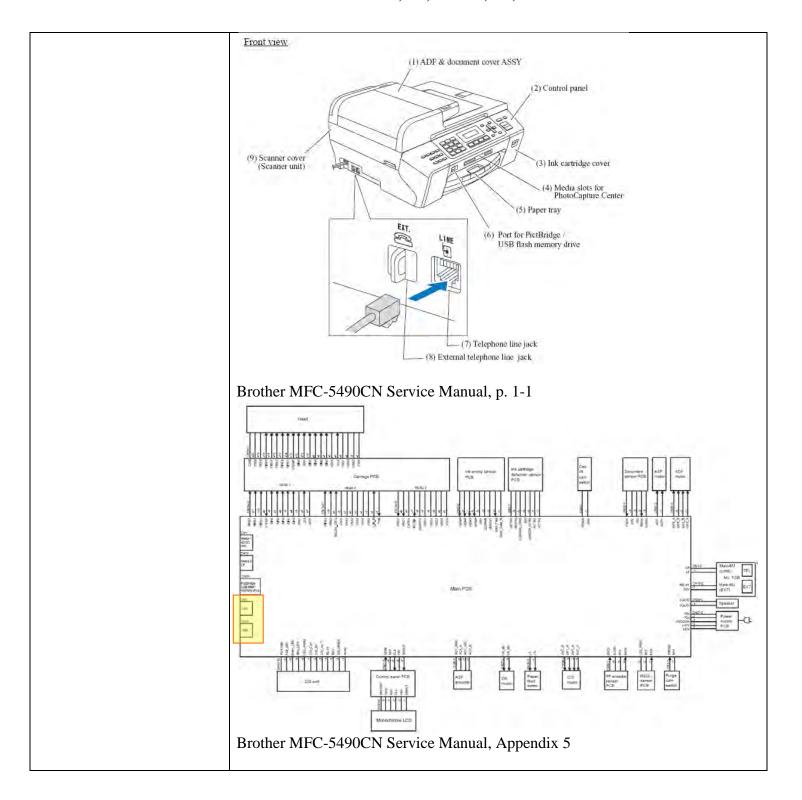


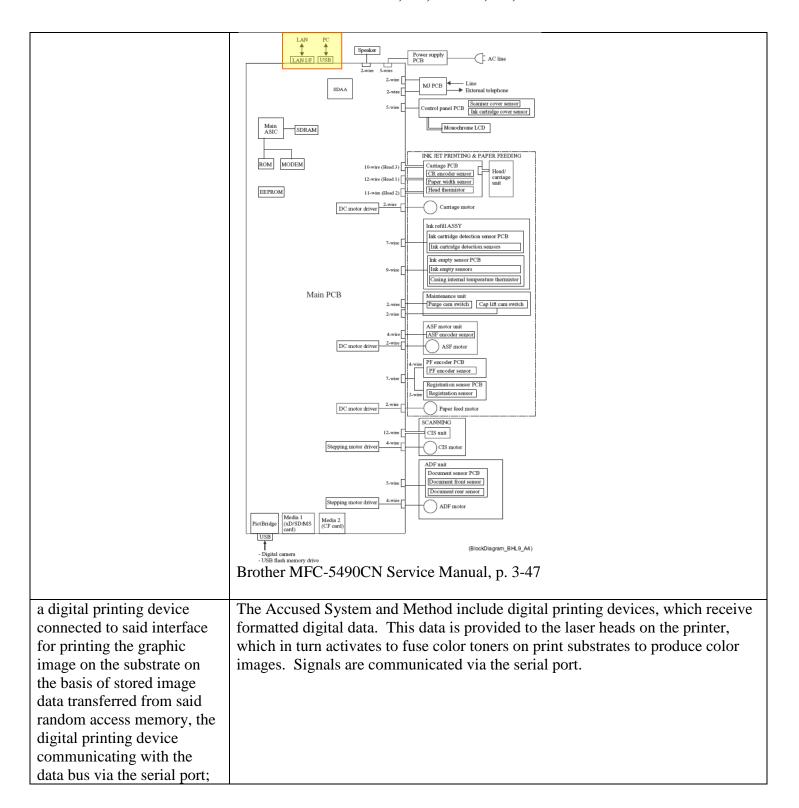


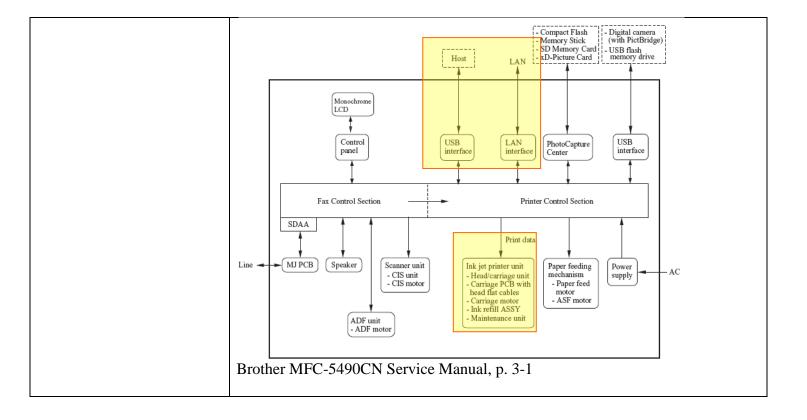
ASIC CPU

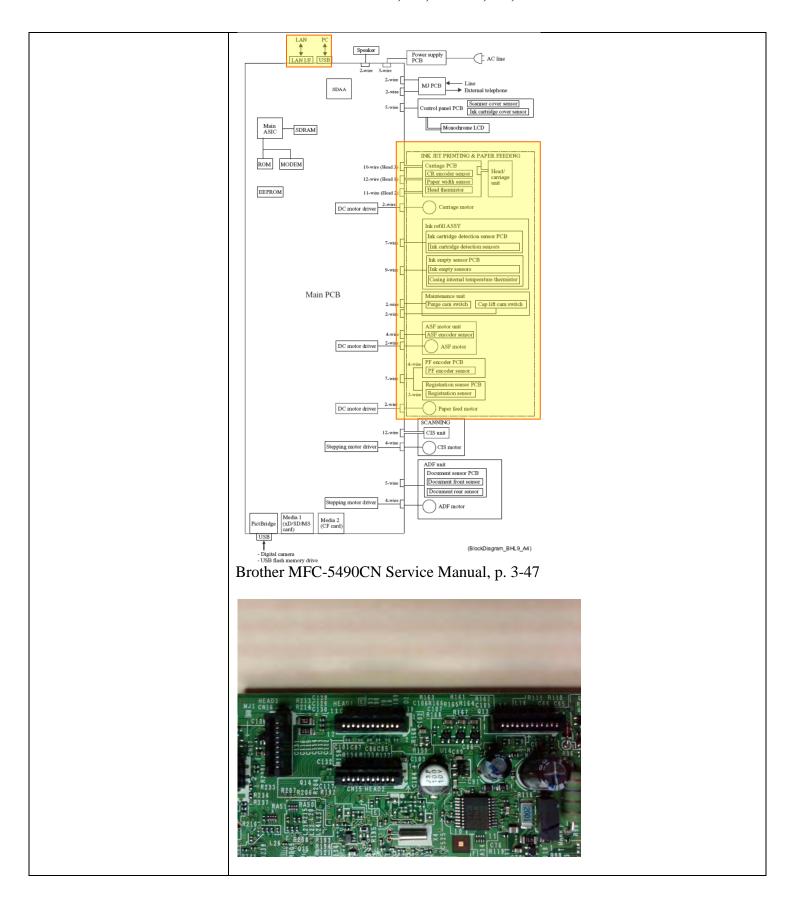


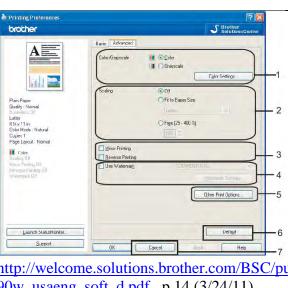












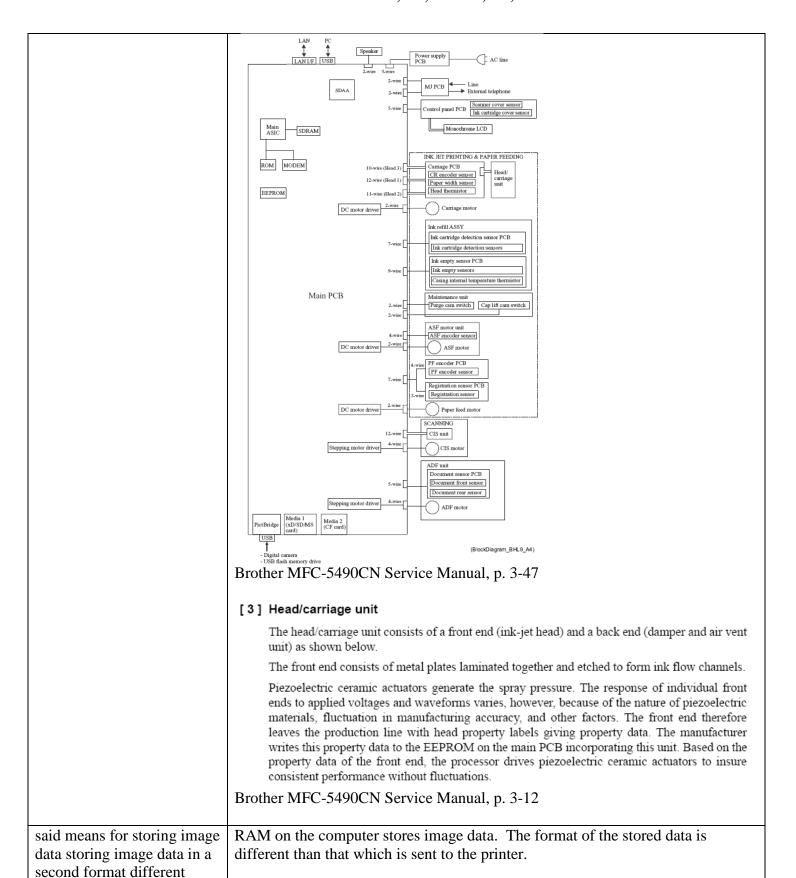
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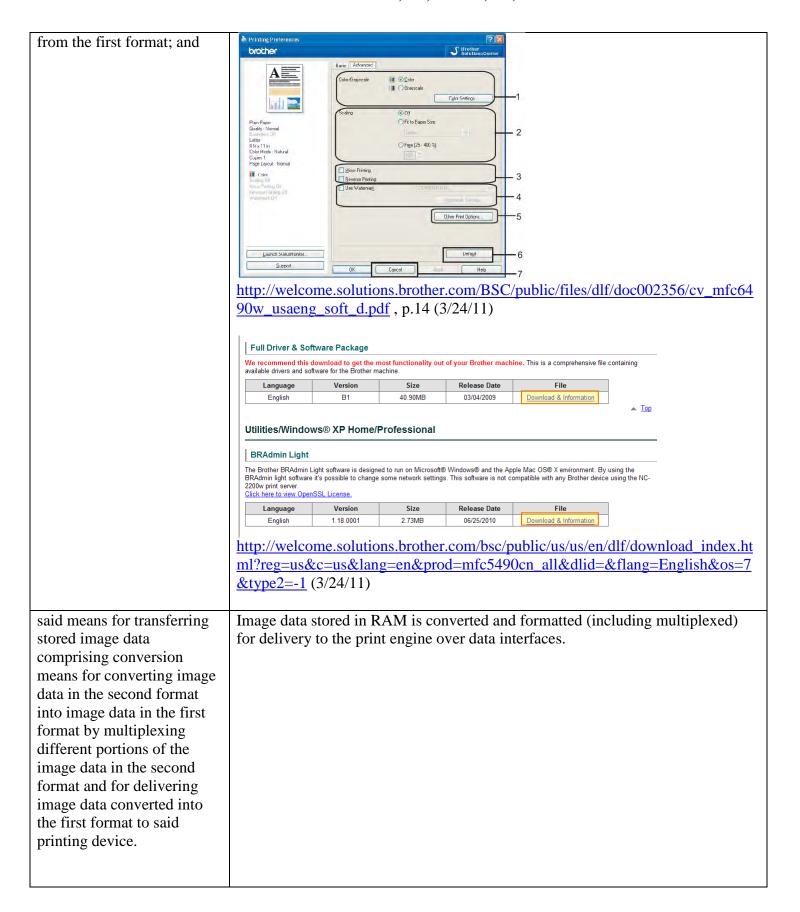
said printing device printing the graphic image in response to image data in a first format; The formatted data at the printer engine is provided in a different format than the data stored in the RAM, namely a first format specific to the printing device's formatting requirements. The Accused System and Method is designed to print on a substrate. For example, the Accused System and Method is used for cutsheet materials.

Print	back to top
Print Technology	Color Inkjet Technology
Maximum Printing Size	8.5" x 14" (Legal)
Consumable Type	4-Cartridge Ink System
Max. Black Print Speed (ppm)	35ppm Black‡
Max. Color Print Speed (ppm)	28ppm Color‡
Print Resolution (maximum dpi)	Up to 6000 x 1200 dpi‡
Borderless Printing	Yes‡
Standard Input Paper Capacity (sheets)‡	Up to 150-Sheet Input Capacity
Standard Interface(s)	Hi-Speed USB 2.0, Ethernet, PictBridge Interface and USB Flash Memory
Printer Driver Compatibility†	Windows® / Mac OS®
Mobile device printing app‡	Brother® iPrint&Scan free app download for wireless printing (JPEG images) from and scanning to your Apple® iPhone®, iPad™, and iPod touch® or Android™ smartphones
Emulation(s)	GDI
Secure Print Function	No
Maximum Monthly Duty Cycle‡	4,000 Printed Pages
Recommended Monthly Print Volume‡	250 - 2000 Printed Pages

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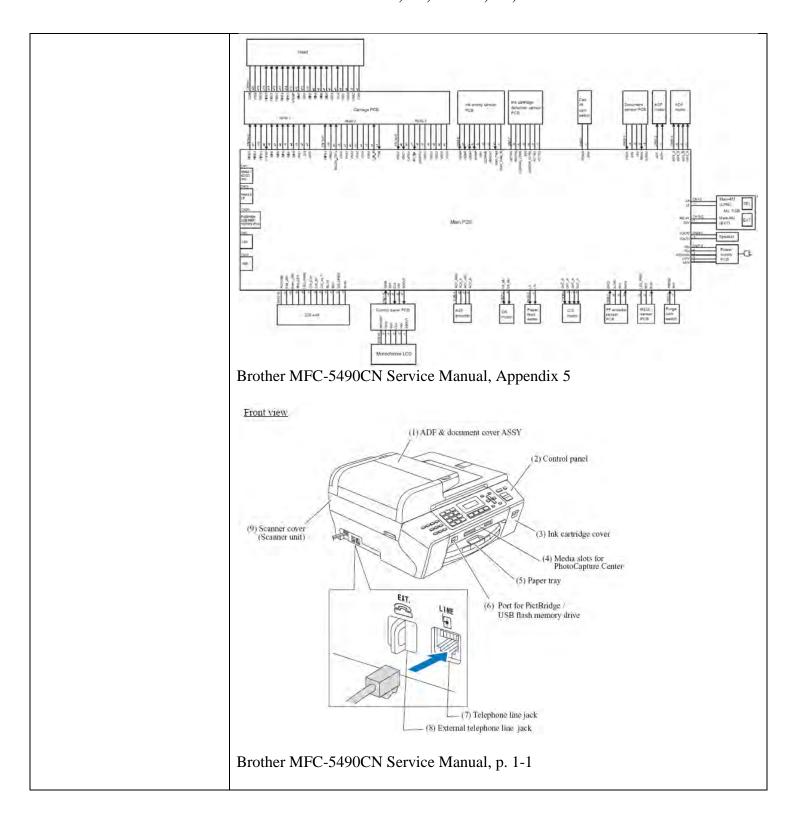
<u>usa.com/MFC/modeldetail.aspx?PRODUCTID=MFC5490CN&tab=spec</u> (3/24/11)

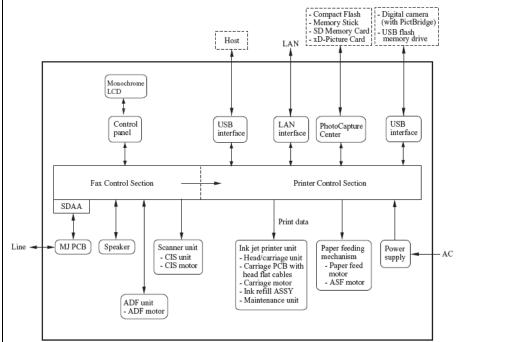












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2. The apparatus according to claim 1 wherein said means for storing image data are operative for storing a quantity of image data sufficient to print the graphic image on the entire substrate, and said means for transferring are operative for continuously transferring the quantity of image data sufficient to generate the graphic image on the entire substrate.

The Accused System and Method is driven by a computer containing a motherboard with a data bus and memory. The computer is controlled by an operating system. Images are stored in RAM. The RAM on the computer is operative to store a sufficiently large amount of image data to print an entire color graphic image on the surface of the full substrate. The interface card transfers the entire quantity of image data for generating the graphic image on the entire substrate without reloading RAM or ceasing print operations.